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NOTICE OF ALLOWANCE AND FEE(S) DUE

7590

09/02/2010

EXAMINER LOW, LINDSAY M

PAPER NUMBER

David Kennett, Director Ramet Holdings Ltd (NZ)

3721 DATE MAILED: 09/02/2010

ART UNIT

Royal Oak PO Box 24422 Auckland. **NEW ZEALAND**

| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|-----------------|-------------|----------------------|---------------------|------------------|
| 10/573.021 | 03/22/2006 | David Kennett | P71178US0 | 2540 |

TITLE OF INVENTION: ELECTRIC POST DRIVER

| APPLN. TYPE | SMALL ENTITY | ISSUE FEE DUE | PUBLICATION FEE DUE | PREV. PAID ISSUE FEE | TOTAL FEE(S) DUE | DATE DUE |
|----------------|--------------|---------------|---------------------|----------------------|------------------|------------|
| nonprovisional | YES | \$755 | \$300 | \$0 | \$1055 | 12/02/2010 |

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. <u>PROSECUTION ON THE MERITS IS CLOSED</u>. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current **SMALL ENTITY status:**

A. If the status is the same, pay the TOTAL FEE(S) DUE shown

B. If the status above is to be removed, check box 5b on Part B -Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or <u>Fax</u> (571)-273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where

| CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address) | | | | Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission. | | | |
|--|---|---|--|---|--|--|---|
| | 7590 09/02 | /2010 | nav | | or mailing or transmission | | |
| David Kennett, Director Ramet Holdings Ltd (NZ) Royal Oak PO Box 24422 | | | I he Stat add tran | reby certify that this | s Fee(s) Transmittal is b th sufficient postage for Stop ISSUE FEE addr O (571) 273-2885, on th | eing dep | osited with the United |
| Auckland, | | | <u> </u> | | | | (Depositor's name) |
| NEW ZEALAN | D | | _ | | | | (Signature) (Date) |
| APPLICATION NO. | FILING DATE | | FIRST NAMED INVENTOR | | ATTORNEY DOCKET NO | | ONFIRMATION NO. |
| 10/573,021 | 03/22/2006 | | David Kennett | ` | P71178US0 | <i>.</i> CC | 2540 |
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| nonprovisional | YES | \$755 | \$300 | \$0 | \$1055 | | 12/02/2010 |
| EXAM | IINER | ART UNIT | CLASS-SUBCLASS |] | | | |
| LOW, LIN | IDSAY M | 3721 | 173-091000 | | | | |
| "Fee Address" ind PTO/SB/47; Rev 03-0 Number is required. | | ' Indication form ed. Us e of a Customer | (1) the names of up to or agents OR, alternati (2) the name of a single registered attorney or 2 registered patent attorney issted, no name will be THE PATENT (print or ty | vely, le firm (having as a a agent) and the name rneys or agents. If n printed. | member a 2 | | |
| recordation as set fort (A) NAME OF ASSIG | h in 37 CFR 3.11. Comp GNEE | ified below, no assignee oletion of this form is NO' categories (will not be pr | data will appear on the p T a substitute for filing an (B) RESIDENCE: (CITY | assignment. Y and STATE OR CO | | | |
| | | | 4b. Payment of Fee(s): (Please first reapply any previously paid issue fee shown above) ☐ A check is enclosed. ☐ Payment by credit card. Form PTO-2038 is attached. ☐ The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment, to Deposit Account Number (enclose an extra copy of this form). | | | | |
| NOTE: The Issue Fee and | s SMALL ENTITY statud d Publication Fee (if requ | uired) will not be accepted | b. Applicant is no lon | | | | |
| interest as shown by the | records of the United Sta | tes Patent and Trademark | Office. | | | | |
| Authorized Signature | | | | Date | | | |
| Typed or printed name | | | Registration No | | | | |
| This collection of inform an application. Confiden submitting the complete this form and/or suggesti Box 1450, Alexandria, V Alexandria, Virginia 223 | tiality is governed by 35 d application form to the ions for reducing this but 7 riginia 22313-1450. DC | FR 1.311. The informatic U.S.C. 122 and 37 CFR USPTO. Time will vary den, should be sent to the ONOT SEND FEES OR (| on is required to obtain or 1.14. This collection is es depending upon the indive COMPLETED FORMS T | retain a benefit by th timated to take 12 m vidual case. Any cor er, U.S. Patent and T O THIS ADDRESS. | e public which is to file inutes to complete, inclu- nments on the amount of rademark Office, U.S. I SEND TO: Commission | (and by a ding ga f time yo Departmoner for P | the USPTO to process) thering, preparing, and ou require to complete ent of Commerce, P.O. atents, P.O. Box 1450, |

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|---------------------------|----------------|----------------------|------------------------|------------------|--|
| 10/573,021 | 03/22/2006 | David Kennett | P71178US0 | 2540 | |
| 75 | 590 09/02/2010 | | EXAMINER | | |
| David Kennett, Director | | | LOW, LINDSAY M | | |
| Ramet Holdings Lt | td (NZ) | | ART UNIT | PAPER NUMBER | |
| Royal Oak PO Box 24422 | | | 3721 | | |
| Auckland, | | | DATE MAILED: 09/02/201 | 0 | |
| NEW ZEALAND | | | | | |

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 66 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 66 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

| | Application No. | Applicant(s) | | | | | |
|--|--|-----------------------------|----|--|--|--|--|
| | 10/573,021 | KENNETT, DAVID | | | | | |
| Notice of Allowability | Examiner | Art Unit | | | | | |
| | LINDSAY M. LOW | 3721 | | | | | |
| The MAILING DATE of this communication appears on the cover sheet with the correspondence address All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308. | | | | | | | |
| 1. This communication is responsive to <u>Amendment filed May</u> | <u>727 , 2010</u> . | | | | | | |
| 2. The allowed claim(s) is/are <u>86-111</u> . | | | | | | | |
| 3. Acknowledgment is made of a claim for foreign priority unappriority and all blue blue blue blue blue blue blue bl | been received. been received in Application No | | ne | | | | |
| * Certified copies not received: | | | | | | | |
| Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 4. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient. | | | | | | | |
| 5. CORRECTED DRAWINGS (as "replacement sheets") mus | . , - | | | | | | |
| (a) ☐ including changes required by the Notice of Draftspers | | 948) attached | | | | | |
| | - · | 540) attached | | | | | |
| (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date | | | | | | | |
| Identifying indicia such as the application number (see 37 CFR 1. each sheet. Replacement sheet(s) should be labeled as such in the | he header according to 37 CFR 1.121(c | l). | | | | | |
| 6. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL. | | | | | | | |
| | | | | | | | |
| Attachment(s) | 5 – 1 N <i>e</i> 1 (1 | | | | | | |
| 1. Notice of References Cited (PTO-892) | 5. Notice of Informal Pa | | | | | | |
| 2. Notice of Draftperson's Patent Drawing Review (PTO-948) | 6. ☐ Interview Summary Paper No./Mail Date | e | | | | | |
| Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date | 7. 🔲 Examiner's Amendn | nent/Comment | | | | | |
| Examiner's Comment Regarding Requirement for Deposit of Biological Material | 8. ☑ Examiner's Stateme9. ☐ Other | nt of Reasons for Allowance | | | | | |
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REASONS FOR ALLOWANCE

- 1. The following is an examiner's statement of reasons for allowance: the primary reason for allowance is the combination of using a linear induction motor to drive an impact tool. The linear induction motor rapidly accelerates a ram to transfer an impact force to an elongate object, such as a pile, to drive the elongate object into a body. The linear induction motor also retracts the ram back to an initial position. Furthermore, due to the acceleration force of the linear induction motor, the device can drive an elongate object into a body in different planes (vertical, horizontal, etc.).
- 2. Regarding the prior art, in particular Jacquement (4,799,557), the reference discloses a ram that is driven to transfer an impact force to a pile. Jacquement's device furthermore discloses an electromagnet to retract the ram to an initial position. However, Jacquement's motor is an electromagnet instead of a linear induction motor and relies solely on the acceleration of gravity to transfer an impact force to a pile.
- 3. Regarding another prior art reference, Martin (4,844,661) discloses a ram that is driven to transfer an impact force to an elongate object. Martin discloses an electromagnet that is used to retract the ram to an initial position. When the device is in the initial position, the electromagnet switches polarity to cause acceleration to the ram to drive it. This initial acceleration is accompanied by the acceleration of gravity to drive the ram. However, although Martin discloses accelerating the ram with a force in addition to the acceleration of gravity, Martin does not disclose using a linear induction motor for accelerating the ram.

- 4. Regarding another prior art reference, Rice (4,390,307), discloses an underwater pile where its movement is controlled by a linear induction motor. The linear induction motor is operated at "near stand-still conditions" to slowly drive a pile into an underwater seabed. While Rice's device does use a linear induction motor to drive an elongate object, Rice does not disclose a ram to transfer an impact force, and instead directly drives the pile with little to no impact force. In addition, Rice's elongate object is not accelerated at an increasing rate and Rice avoids the use of any impulse forces to drive the pile as discussed in col. 1 lines 18-22.
- 5. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."
- 6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to LINDSAY M. LOW whose telephone number is (571)272-1196. The examiner can normally be reached on Monday thru Friday 9:00 to 5:00pm.
- 7. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Rinaldi Rada can be reached on 571-272-4467. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Application/Control Number: 10/573,021 Page 4

Art Unit: 3721

8. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Lindsay M Low/ Examiner, Art Unit 3721

/Rinaldi I Rada/ Supervisory Patent Examiner, Art Unit 3721